

# AlKarma Language School Academic year: 2017/2018



Primary 4 Science Booklet Second Term

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-	Class	:



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# Unit One Living Things Lesson 1 The Digestive System

### The structure of the living organism body:

The living organism body consists of a set of systems. These systems are:

- 1- Digestive system: It digests and absorbs food.
- 2- Respiratory system: It carries the process of breathing.
- 3- Circulatory system: It distributes the digested food and oxygen all over the body cells.
- 4- Urinary system: It helps the body to get rid of the harmful substances.
- 5- Nervous system: It lets us have the ability to feel, hear, see, smell, and taste.
- 6- Reproductive system: It gives birth for new individuals.

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#### The Human Digestive System:

It consists of :

- a-Digestive canal:
- -is a set of organs connecting to each other in the shape of a long pipe. (length 9-10 meters)
- -It starts with the mouth cavity and ends in the anus.
  - b-Digestive canal supplementaries:
- consists of three types of glands connected to the digestive canal:
- 1- Salivary glands
- 2- Liver
- 3- Pancreas

**<u>Digestion</u>**: is the process of changing food from a complex form into a simple one which the body can use.

#### First: Mouth:

a- Teeth:

- -There are 32 teeth in an adult's mouth.
- 16 in the upper jaw and 16 in the lower jaw.
- Each jaw is divided into:
  - 4 incisors (cut and tear food)
  - 2 canines (cut and tear food)
  - 10 molars = 4 premolars + 6 molars (molars grind food)

### b- Tongue:

It tastes food and mixes it with saliva.

c- Salivary glands:

- -They are 3 pairs.
- -They secrete saliva in the mouth.
- -Saliva has a digestive substance called enzymes.

Enzymes: digest starches, and converts them into simpler substances known as <u>sugars</u>.

#### Second: Pharynx:

Common cavity leads to the esophagus and trachea.

#### Three: Esophagus:

A muscular tube in which food moves from the mouth to the stomach.

#### Fourth: Stomach:

- -Muscular sac works on mixing food.
- Food changes into semi-liquid substance.
- Incomplete digestion of protein by gastric juice.

#### Fifth: Small intestine:

- It has two main parts:
  - a- Duodenum
  - b- Ileum
- Length about 7 meters.
- Coils inside the abdominal cavity

**Duodenum:** is the first part of the small intestine where

- a- Bile juice is secreted from the liver.
- b-Pancreatic juice poured from the pancreas.

Bile juice: helps to digest fats where it changes fats into fatty emulsion.

*Ileum:* the digestion to different types of food is completed.

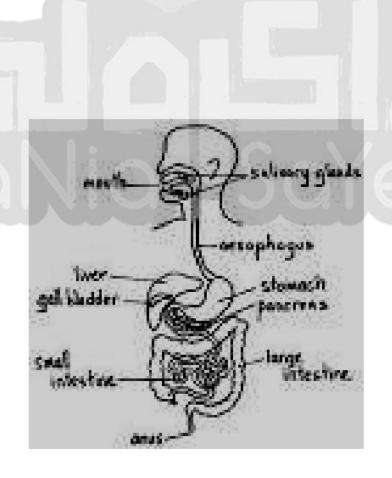
Absorption: takes place through the small intestine walls

### Sixth: Large intestine:

-starts with the rectum and end in then anus.

Rectum: water is absorbed from food remains.

Anus: wastes are ejected out of the body.



### Unit One

#### Lesson one

### The Human Digestive System

#### Worksheet 1

<u>ill in the blanks:</u>	
1- An adult person has	
in 6	each jaw; where as a child has
milk te	eth, in each jaw.
These teeth are replaced of	d by strong ones before the age
2-The teeth are divided int	to
	and
3- The functions of the ton	
a	
b	
4-There are	pairs of salivary glands.
5- The function of the saliv	vary glands is
6ir	the stomach helps to digest
protein.	
7-The intestinal juices are:	(secreted by
to the processing with the control of the control o	(500; 0100 b)
liver) and	
· · · · · · · · · · · · · · · · · · ·	( produced by pancreas).
8-The small intestine start	( produced by pancreas). s with a part known as
8-The small intestine start wh	( produced by pancreas). s with a part known as ich is followed by another part
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2+2 9

10- Absorption process takes place in the	
11- Water is absorbed in the	_fromfood
remains, and then these wastes are ejected be through the	by the body
12- Gastric juice digests	in the
13- Bile juice helps to digest	which
change into	and takes
place in the	
14- Saliva contains digestive substances calle	ed
which converts	
into This process takes	place in the
15- The digestive canal starts with  with	and ends
Give reasons for	
1)-Digestion process is very important.	
2)-Teeth are different in their kinds.	
3)-Bile juice is very important.	
4)-You must not eat fast meals.	
What is meant by:	
1)-Digestion process.	

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# Lesson Two **Human Respiratory** System

- -All of us can't live without air.
- -Air contains oxygen gas which burns the small particles of the absorbed food to produce:
- 1- Energy
- 2- Carbon dioxide
- 3- Water vapor

This is called "respiration process".

# The importance of the respiration process:

It gives the body the needed energy to do all the body activities.

## 1) Structure of Respiratory System:

#### 1 - Nose:

- It is lined with a mucous layer and hair that filter air from dust and microbes.
- It contains blood capillaries (tiny blood vessels) to warm the air as it passes through.

#### 2- Pharynx:

- A common cavity leads to the esophagus and trachea.

#### 3- Trachea:

- a tube supported with incomplete cartilage rings which makes it permanently open.
- Trachea is lined with cilia (tiny hair) to eject up strange objects.
  - At the top of the trachea:
  - a- larynx: voice box
  - b- epiglottis: it closes the opening of trachea during swallowing to prevent entering the food in it.
    - The bottom of the trachea: Branches into two narrow tubes called bronchi entering the lungs. (plural noun)-(singular is bronchus).

#### 4- Lungs:

- a-Bronchus (it is divided into bronchioles)
- b- Bronchioles
- c- alveoli (the ending part of the bronchioles) surrounded by a lot of blood capillaries in where gas exchange occurs.
  - Lungs are surrounded by ribs to protect them.
    - *Diaphragm:* is a muscle that separates the thoracic cavity from the abdominal cavity.

*Respiration:* is the process in where the air rich in oxygen enters into the lungs, and the air rich in carbon dioxide released outside them.

#### 2) Mechanism of Respiration:

#### Process of inhalation:

- The diaphragm muscle contracts causing the thoracic cavity to enlarge.
- The air rich in oxygen enters the lungs.

#### Process of exhalation:

- The diaphragm muscle relaxes causing the thoracic cavity to be narrow.
- The air rich in carbon dioxide moves outside the lungs.

### Exchange of gases:

- Exchange of gases occurs between the air existed in alveoli and the blood flows in the capillaries via their thin walls.
- Blood leaves carbon dioxide (through alveoli to send it out of the lungs) and carries the oxygen (coming from the outside air) and distributes it all over the body cells.

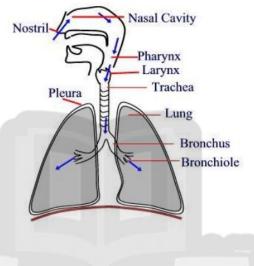
#### 3) Components of exhaled air:

Blowing air through a tube that contains clear lime water, turns it to be unclear (the turbidity of lime water) which is an evidence of carbon dioxide in the exhaled air.

Exhaling on the surface of a mirror shows that some water droplets are formed, which an evidence of the presence of water vapor in the exhaled air.

2+2

Exhalation air contains carbon dioxide and water vapor.





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الصف الرابع الابتدائى موقع ذاكرولى التعليمي بوكليت مدرسة الكرمة للفات

### Lesson Two

### **Human Respiratory System**

### Worksheet 2

1) Complete the following statement:
1- The human respiratory system consists of:,
, and
2 is a common cavity which leads to the
esophagus and trachea.
3- At the top of the trachea, there are and
·
4 closes the top of trachea during swallowing.
5- The respiration process includesand
processes, and it increases during
6- The exhaled air contains and
7- Nose is lined with and
8 is found in nose to warm the inhaled air.
9- Trachea is supported with
10- Trachea is lined with to eject up dust.
11- The bottom of the trachea branches into two narrow tubes
called
12- The exchange of gas takes place in the
13- Inside each lung, each bronchus is divided into
that end in
14muscle helps in the mechanism of respiration.
15-Diaphragm separates cavity from cavity.
16- During the inhalation process, diaphragm and
·
17- During the exhalation process, diaphragm
and

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2+2 99

18- Carbon dioxide gas causes the turbidity of _	•
19- In inhalation process, we take	But in
exhalation process we expel	1 Jacobs Streets Solition
20- The exchange of gases occurs in alveoli bet	ween
and	
2) Choose the correct answer:	
1- The organ which is responsible for warming a	ir before
entering lungs is	
a-pharynx b-nose c-trachea d-	bronchi
2 exist(s) in the nose to filter the	air from dust
and microbes.	
a- Hairs b- Blood capillaries c- Mucous d-(a	and (c)
3- Trachea is supported by incomplete	to make it
permanently open.	
a- cilia b- mucous	
c- blood capillaries c- cartilage rings	
c blood capital les c car mage rings	
4 is called the voice box.	
	lugali
a-Larynx b-Diaphragm c-Epiglottis d-A	iveoii
E Th. 1	
5- The two lungs are surrounded by	
a- muscles b- ribs c- skin d- diaphro	agm

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2+2

Give	reasons	for:

1)-Importance of oxygen gas for human body.
2)-Importance of respiration process.
2) Fulsalad sign toward live a system to while
3)-Exhaled air turns lime water turbid.
4)-Lungs have alveoli.
<u></u>
5)-You must avoid being in crowded area.

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# Lesson Three The cell

#### What are cells?

A cell is the smallest unit of living things that can carry out all the biological functions (such as nutritionmotion- sensation- growth and reproduction)

The cell is the unit of structure and function in living organisms.

A unicellular organism is made of a single cell that carries out all its life processes.

Examples of unicellular organisms: amoeba, Euglena, Paramecium, bacteria and yeast fungus.

A Multicellular organism is made of more than one cell. Multicellular organisms include frogs, trees, and you!

- · Each cell carries out its own life process, to keep itself alive.
- Each type of cells has specific function. For example, muscle cells specialize in movement.

### How are cells organized?

Cells are the building blocks of the body.

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- · Similar cells working together for the same job, or function, form a tissue.
- A group of tissues that work together to perform a specific function form an organ. The heart, liver, and skin are organs.
- Organs that work together to perform a certain function make up a system. For example, the circulatory system includes the heart, blood and blood vessels.

#### What is inside an animal cell?

# 1 - Cell (plasma) membrane:

It is the outer membrane of the animal cell.

Function: it controls the substances that enter or leave the cell.

#### 2- Cytoplasm:

It is a fluid that fills the cell, where all the cell components are suspended in it.

Function: All the biological operations of the cell occur in it

#### 3- Nucleus:

It is a large and round structure found in the center of the cell.

Function: It organizes the biological processes in the cell and it is responsible for cell division.

#### In Plants:

- The plant body is made up of systems (shoot system and root system)
- These systems are made up of organs as roots, stems and leaves.
- Each organ is made up of tissues (such as the epidermis tissue of the onion plant leaf)
- Each tissue is made up of similar cells.

### What is inside a plant cell?

- Plant cells have many of the same structures as animal cells.
- They often have a box-like shape and are a bit larger than animal cells.
- They also have some additional structures that animal cells do not have.

#### 1- Cell Wall:

It is an additional outer covering around the outside of the cell.

Function: It supports the plant cell and gives it a definite shape.

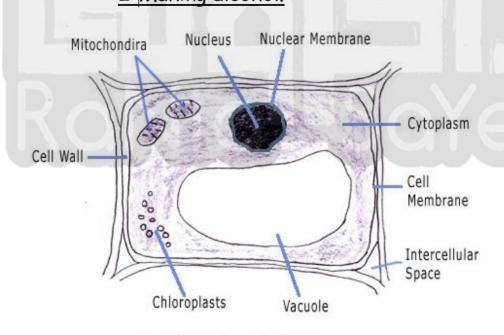
2+2-8

### 2- Chloroplast:

A chloroplast is a green structure where the energy from sunlight is used to produce food for the plant in a process called photosynthesis.

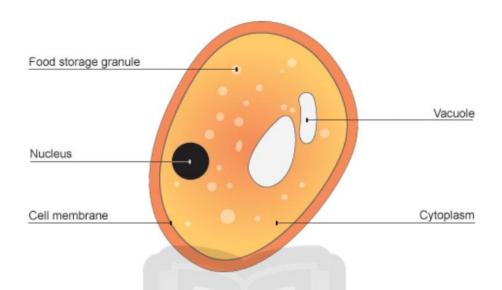
# Structure of yeast fungus:

- It is a unicellular living organism made up of nucleus, cytoplasm and a cell wall that determines the cell shape.
- The fungus has a great economic Value: 1- Making bread. 2-Making alcohol.



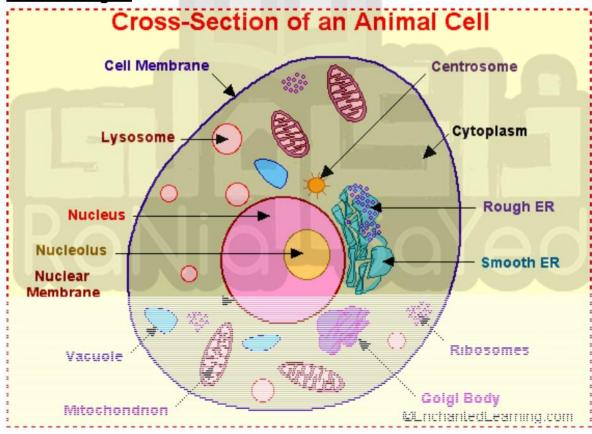
Labeled Plant Cell Diagram

Sketch by Abhishake Sharma



### Yeast fungus

2+2-8



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### Lesson three

### The Cell

### Worksheet 3

Cor	nplete:				
1-	is the smallest	building unit in the living			
	organism's body.				
2-	The plant cell is composed of				
	cy	toplasm and			
3-	The plant cell is surrounded by animal cell is surrounded by				
4-	The plant cell and the animal cel				
	presence of,				
5-	The plant cell is characterized than the animal cell by the				
	presence of and				
6-	and	_ are examples of			
	unicellular organisms.				
14	ose the correct answer:				
1-	The correct structure of the	human body is			
	a- organ, tissue, cell, system				
	b- tissue, organ, cell, system				
	c- cell, tissue, organ, system				
	d- organ, cell, tissue, system				
2-	The system in the human body	is composed of a group			
	of				
	a- organs	b- tissues			
	c- different cell	d- similar cells			

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3-	Roots and leaves are f	rom the plant
a	- systems b- organs	c- cells d- tissues
4-	The plasma membrane :	surrounds the cell directly
	a- cytoplasm	b- cell wall
	c- nucleus only	d- chloroplasts
5-	The biological operatio	ns occur in
	a- cytoplasm	b- cell membrane
	c- nucleus	d- chloroplasts
6-		es the biological operations in
		nsible for the cell division.
		b- cell membrane
	c- nucleus	d- chloroplasts
7-		sible of making food by
	photosynthesis process	
	a- cytoplasm	
	c- nucleus	d- chloroplasts
8-		from the components of the
	animal cell except	
	a- cytoplasm	
		d- chloroplasts
9-	The plant cell performs	
	a- respiration function	
	b- transport function	
	c- photosynthesis funct	tion
	d- all the previous answ	
10-		from the properties of the
	living organisms except	• •
a- m		- nutrition d- magnetism
		example of unicellular living
	organisms.	Statistic of allicollater living
n.		ast fungus d- bean plant
u	ring D shake c yet	as , angus a bean plan

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1-	A	group	of	symmetric	cells.	
----	---	-------	----	-----------	--------	--

A group of similar tissues. \_\_\_\_\_ 2-

A group of organs working together. 3-

The building unit of the plant body. \_\_\_\_\_ 4-

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2+2-90

5-	The outer layer of a plant cell
6-	A structure that surround the cytoplasm
	in the animal cell.
7-	A structure that controls the substances
	that enter or leave the cell.
8-	A fluid (a gel-like liquid) that fills the cell,
	where the biological processes occur.
9-	A unicellular organism used in baking bread
	and making alcohol.
10-	Tiny structures spread in the cytoplasm of
	the plant cells and are responsible of photosynthesis
	process.
Giv	e reasons for each of the following:
1-	Plants can make their own food.
2-	Yeast fungus has an economic importance.
	ANIAHEAVAA
3-	Chloroplasts play an important role in the plant cell.
3-	Chloroplasts play an important role in the plant cell.



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### Lesson Four The Importance of Sunlight and Living Organism

#### Introduction:

· Plants are the only living organisms that produce (make) their own food, that is why they are called producers.

**Producers:** are the living things that can make their own food through the process of photosynthesis.

## What is the process of photosynthesis?

It is the process of making food in the green parts of the plant (chloroplasts), using:

- light energy from the sun 1-
- 2water and salts from the soil
- carbon dioxide from air.

To produce: 1- Oxygen

2- Sugar or starch.

Plant cells contain chloroplasts which:

- Give the plant the green color. a-
- Absorb sunlight. b-

#### Types of living things according to their feeding:

**Producers:** are the living organisms that can make their own food by the photosynthesis.

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**Examples:** a- green plants

- b- Some types of bacteria
- c- Green algae
- Consumers: are the living organisms that depend 2on producers directly (first consumer) or indirectly (second consumer) to get their food.

Examples: a- First consumers: cows - sheep - chicken human.

b- Second consumer: lions - snakes - hawkshuman.

#### Decomposers:

- They are living organisms that can't make their food by themselves due to the absence of chloroplasts in their cells.
- They get their food through the decomposing of the:
- organic wastes (e.g. dead bodies), a-
- plant remains b-
- decayed food.

Examples: - Some types of bacteria

- Some fungi such as bread mold fungus
- Some worms

Importance of decomposers:

- They help us to get rid of the dead organisms' 1bodies.
- They increase the soil fertility. 2-
- 3-They are used in a lot of industries.

### Lesson Four

### The importance of sunlight to living organisms

### Worksheet 4

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2+2 9

Choose	the	correct	answer:

1- All the following are no	ecessary for photosynthesis process	
except		
a- carbon dioxide gas	b- starch	
c- sunlight	d- water	
2- Plants use	_ in the photosynthesis process.	
a- oxygen gas	b- nitrogen gas	
c- carbon dioxide gas	c- water vapour	
3- Bread mold fungus is a		
a- producer	b- decomposer	
c- consumer	c- all of the previous answers	
4- The rot that is formed	d on bread is a type of	
a-bacteria b-fungi	c- plants d- animals.	
5- Chloroplasts are found	l in	
a- green plants	b- decomposers	
c- consumers	c- all of the previous answers	
Give reasons for ea	ach of the following:	
1- The green plants are called food producer organisms.		
<u>Vai Xic</u>		
2- Decomposers and cons	umers can't make their own	
food		
3- Decomposers have a gi	reat economical and environmental	
importance.		

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### Unit Two Lesson One Forms Of Energy and their Changes

#### Forms of energy and their changes

Energy: is the ability to do work.

Food provide the body with energy

Fuel provides the car with energy.

#### Forms of energy:

1 – Potential energy.

Example: energy stored in spring of car toy.

2 – Light energy.

Example: energy produced from sun, electric lamp, torch,...

3 - Kinetic energy.

Example: moving car - moving fan.

4 - Sound energy.

Example: energy produced from piano, drum ,.....

Sound is produced due to vibration of object.

Example: a – you hear a sound when you tap a tuning fork.

b- You hear a sound when you pull e stretched rubber band.

5 – Electric energy

Energy produced from the dry cell (battery).

#### Changes of energy:

1 – From potential energy to kinetic energy

On rotating spring of toy, work is exerted and stored in it as a potential energy which change into kinetic energy on leaving it

2 - From kinetic into sound energy.

Example: a – when you move school bell.

- B When you beat a drum.
- C When you clap your hand.

d- When you pull stretched rubber band, it vibrates and produce sound energy.

3 – From kinetic energy to heat energy.

When you rub your hand together you feel warm.

4 –From kinetic energy to electric energy

Dynamo change the kinetic energy to electric energy.

- 5 Changes of electric energy into:
- A Light energy: in electric lamp.
- B Kinetic energy: in motor (fan washing machines mixer
- 6 Changing of light energy into:
- A heat energy:

If we collect sun rays on a piece of paper by using magnifying lens, the paper will burn because sun rays have thermal effect

- B electric energy:
  - By using solar cells in artificial satellites and space ships.

### Unit Two - Energy and its Forms

### Lesson One

### Forms of energy and their changes

### Worksheet 5

Complete:		
1- Energy is the ability to do	i.	
2- The spring of the children's toy stores		
energy.		
3 is the energy produced by a heat	er, while	
is the energy produced by a radio	•	
4 is the energy produced by a dry		
energy is stored in a dry cell.		
5 is a form of energy that reaches	ear causing	
hearing.		
6- Sound originates from		
7- In the guitar, energy changes int	о	
energy.		
8- When you rub your hands together,	energy	
changes into energy.		
changes into energy.  9- We get energy from the solar of	ells.	
10- In a solar heater, energy changes		
energy.		
Choose the correct answer:		
1- The energy produced by a piano is the		
a- potential energy b- sound energy		
c- electric energy d- chemical energy	<b>3</b> Y	
2- The electric energy is produced by		
a- the dry cells b- the piano		

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# Put $(\int)$ or (x) and correct the wrong ones:

d- kinetic energy into electric energy

1- The energy stored in the spring of a toy is kinetic energy.
2- The energy produced from the solar heater is electric
energy. ( )
3- Light is a form of energy that reaches ear causing hearing.
4- Sound stops when the vibration of a tunning fork stops.
( )
5- Focusing the sun rays by a convergent lens on a piece of
paper causes the changing of the light energy into electric
energy. ( )

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# Give reasons for each of the following:

1- You hear a sound when you tap a tunning fork.

2- When you ride a bicycle, some changes of energy happen.

3- When you remove a nail from wooden plate, the nail becomes warm.

تابع جدہد ذاکرولی علی تليجــر ام

لا تئس الاشئر اك في قنـوات ذاكـرولي على تطبيق الثليجرام

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### Lesson Two The Electricity

#### There are two types of electricity

Static electricity	Dynamic electricity
Produced due to accumulation of electric	Produced due to flow of electric
charges on objects	charges through a wire

#### Static electricity generation:

- 1 On rubbing a balloon by a piece of wool, electric charges are formed on its surface and attract the powdered sugar to them.
- 2 After rubbing the ruler by your hairs several times, electric charges are formed on the ruler and attract the small bits of paper

#### Formation of dynamic electricity( electric current )

#### Activity:

Put the battery inside the torch – then press its key.

What happens .....?

The lamp light because chemical energy in the battery change to electric energy (electric charges ) which pass through the wire to the lamp causing its lighting.

#### The simplest electric circuit:

Electric circuit: it is the path of electric current.

The battery: it is a source of electric current.

The switch (key): it is used to close and open the electric circuit.

The wire: used to transfer electric current from the battery to the lamp.

Examples of electric equipments used at home:

T.V – Washing machines – Heater – Computer,

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#### Lesson Two The Electricity

#### Worksheet 6

### 1 - Choose the correct answer:

l – Most of equipments at	home work by	
---------------------------	--------------	--

(heat - light - electricity )

2 - ----is formed when electric charges remain on an object.

(Static electricity - light - current electricity)

3 - The source of electric current called -----

(switch - wire - battery )

----- is used to close and open the electric circuit. (Wire - switch - battery)

### 2 - What happens when:

1 - Rubbing your hair by a comb.

2 - On closing an electric circuit by a switch.

### 3 - Give reasons:

1 - The electric circuit contains connecting wires.

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### Unit One

# [1] - Complete the following statements:

1 - Esophagus allows food to pass fromto
2 - Saliva changes
3 - Liver secretes juice which is stored in
4 - The body gets rid of carbon dioxide throughsystem
5 - The healthy breathing occurs through and not through the
6is the common organ for respiratory system and digestive system.
7 - The animal cell is surrounded bywhile the plant cell surrounded by
8 - Yeast fungus is made up of,and
9 - The group of tissues which work together forms
10 - The green leaves need
11 - When iodine solution is added to starch, its colour turns
13 - Water + sugar +
14 - Food chain begins withand ends with

15 - ---- Feed on the organic remains.

# [2] - Put ( $\int$ ) or (X) in front of the following statements :

1 - Absorption of food is completed in the small intestine.			
		)	
2 - The pancreas secretes gastric juice. (		)	
3 - The number of teeth in an adult is 35.		)	
4 - The large intestine is a part of urinary system.	(	)	
5 - The gas exchange process takes place in alveoli.	(	)	
6 - The lungs and the heart are located in the ches	† co	avity. )	
7 - Lime water becomes turbid when the inhaled air through it.	, ba	sses )	
8 - Smoking does not affect man's health.	(		
9 - Both of plant cell and animal cell contains a nucl	eus (	. )	
10 - The system is a group of tissues working toget	her (	·. )	
11 - Green plants are called producers.	(	)	
12 - Oxygen gas is essential for photosynthesis pro	ces	SS.	
	(	)	

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- 11 A group of cells that work together. -----
- 12 -Living organisms that can make their own food.

- 13 It is the path of energy in a form of food from living organism to another one.
- 14 Organisms help the environment to get rid of the remains of organisms.
- 15 Consumer that feeds on herbivore consumer.

### [4] - Choose the correct answer:

1 - The ----- substances is digested in the stomach .

(sugar - protein - fat )

2 - Saliva helps in the digestion of -----

(protein - fat - starch)

3 - The adult has ----- molars in each jaw.

(2 - 10 - 32)

4 - Absorption of digested food takes place in the -----.

(stomach - small intestine - liver)

5 - Epiglottis is found -----.

(above the pharynx - inside the nose - above the larynx )

- 6 A living organism gets his energy from ----- process. (digestion - excretion - respiration)
- 7 The organ which warm the air before entering the (nose - larynx - trachea) lungs
- 8 The gas that makes lime water turbid -----.

(oxygen - nitrogen - carbon dioxide)

9 - The cell wall is found in the -----.

(animal cell - plant cell - cells of human body)

- 10 The ----- is an example of unicellular living (frog - bean plant - bacteria) organism.
- 11 A group of organs that work together forms -

(a cell - a system - a living organism)

- 12 The gas produced during photosynthesis process----(water vapour - nitrogen - oxygen )
- 13 Photosynthesis process takes place in ------.

(root - green leaves - flower)

14 - Chloroplasts are found in -----.

(producers - consumers - decomposers)



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#### Unit Two

# [ 1 ] Complete the following:

- 1 Changing of object state needs -----
- 2 The measuring unit of force is -----related to the scientist -----
- 3 Force of ----- moves the balloon upwards.
- 4 Energy is the ability to do -----.
- 5 Sound is produced due to ----- of objects.
- 6 We get -----energy from dry cell.
- 7 In an electric motor, ----- energy changes to ------ energy.
- 8 Light energy change to chemical energy as in -----.
- 9 In dynamo ----- energy changes to electric energy.
- 10 ---- and -----are from renewable resources of energy.
- 11 The ----- is the main source of energy on the earth's surface.
- 12 Solar cell changes -----energy to ----- energy.
- 13 ----is used to close and open the electric circuit.

# [2] Put (J) or (X) in front of the following statements

1 - Electric lift depends on the effect of force in rising heavy objects.	of (	)
2 - Electric fan rotates by the effect of water pushing.	(	)
3 - Turning on a lamp changes kinetic energy into potent energy.	ial (	)
4 - On beating a drum kinetic energy changes to light er	iergy	<b>′</b> .
	(	)
5 - Coal, wind and water falls are renewable resources o energy.	f (	)
6 - Wind is used in rotating wind mills for generating electricity.	(	)
7 - Petroleum is preferred than natural gas.	(	)
8 - Sun is not necessary for growth of plants.	( )	)
9 - Rubbing of objects generates light.	(	)
10 - Static electricity is formed from electric charges tremain on an object.	hat (	)

### [3] Write the scientific term:

1 - It is an effect that changes the state of an object.

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2 - The ability to do work.	
3 - The energy produced from the d	ry cell
4 - It is the source of electric curre	ent in the electric circuit.
5 - The energy stored on a spring of	a car toy
6 - The energy of running water to r	otate turbines.
7 - The cleanest forms of fuel.	
8 - It is used to change solar energy	to heat energy.
9 - It is rotated by wind to generate	e electricity.
	5 <del>-1/-</del> 1
10 - It is the path of electric currer	nt

**GOOD LUCK** 

انض الأن لجروبات ناكرولي على الفيسبوك س الحف الأول للحف السادس الاشائي

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2+2